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means in the first pad for providing a plurality of light indications each for a particular one of the vehicles in the plurality,

means in the first pad for providing first light indications for the vehicles in the plurality when such first pad has not provided an address for any of the vehicles in the plurality,

means in the first pad for providing a second illumination for the individual one of the vehicles when the first pad provides the address for such individual one of the vehicles, and

the first pad including an additional switch having first and second states of operation and operative in the first state to provide for the operation of the individual one of the vehicles only by the first pad and operative in the second state to provide for [an] the operation of the individual one of the vehicles only by another one of the pads in the plurality in addition to the first pad.

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Claim ~~9~~¹¹ (Twice Amended): Line 10, before "pads" insert -- the --;

18 line 12, before "pads" insert ~~the~~^{the} --.

Claim ~~20~~¹⁸ (Twice Amended): In combination for use with a central station and a plurality of vehicles for selecting and operating individual ones of the vehicles in accordance with addresses and commands provided by the central station,

a pad in a plurality of pads,

a first switch in the pad, the first switch having first and second states and operable on a repetitive basis to the second state for a particular number of times to select an individual one of the vehicles to be addressed by the [central station] pad,

a plurality of additional switches in the pad, the additional switches having first and second states and operable to the second state in a particular pattern to obtain the operation of the individual one of the vehicles in accordance with the pattern of operation of the additional switches in the second state,

a plurality of light indications in the pad, each of the light indications being associated with a different one of the vehicles in the plurality,

means for energizing the light indications in sequence in accordance with the sequential operations of the first switch in the pad to the second state to select the individual one of the vehicles in the plurality,

means for continuously energizing the individual one of the light indications associated with the individual one of the vehicles when the first switch in the pad has been

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operated to the second state on the sequential basis for the particular number of times to select the individual one of the vehicles to be addressed by the central station, [and]

means for skipping the energizing of the light indications associated with the vehicles addressed by the pads in the plurality other than the pad when the first switch in the [other] pad is operated on the repetitive basis to address the individual one of the vehicles[.], and

means in the pad for providing for the addressing of the individual one of the vehicles by another one of the pads in the plurality in addition to the addressing of the individual one of the vehicles by the pad.

Claim ²⁵ (Twice Amended): Line 3, before "any" insert -- of --.

Claim ³⁰ (Twice Amended): Line 17, before "signals" insert -- first --.

Claim ⁴³ (Twice Amended): [In a combination as set first in [Exhibit] claim 43] In combination for use in a vehicle for moving the vehicle in accordance with commands which are provided by a pad to control the movements of the vehicle and which are converted by a central station to commands addressed by the central station to the vehicle to obtain the movements of the vehicle,

a pair of left wheels in the vehicle, the left wheels being spaced from each other in a longitudinal direction,

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a pair of right wheels in the vehicle, the right wheels having the same spacing in the longitudinal direction as the left wheels,

a first motor in the vehicle for moving the left wheels in the vehicle in the longitudinal direction,

a second motor in the vehicle for moving the right wheels in the vehicle in the longitudinal direction,

the commands addressed to the vehicle from the central station including first signals for operating the first motor and second signals for operating the second motor,

first means in the vehicle for receiving the commands addressed to the vehicle from the central station,

second means responsive in the vehicle to the first and second signals received by the vehicle from the central station for operating the first and second motors in accordance with such signals,

the vehicle being operative in a powered and active state and in a powered and inactive state,

third means responsive in the vehicle to the failure of the vehicle in the powered and active state to receive the first and second signals for a particular period of time for maintaining the same operation of the first and second motors for such particular period of time as the operation of the motors upon the last reception by the vehicle of the first and second signals from the central station,

fourth means operative at the end of the particular time period for converting the operation of the vehicle from a powered and active state to a powered but inactive state when the vehicle fails to receive the first and second signals during the particular time period, and

fifth means responsive in the vehicle to the first and second signals received by the vehicle from the central station for operating the first and second motors in accordance with such first and second signals only when the first means has received the same first and second signals from the central station a plurality of successive times.

Claim ~~46~~⁴⁴ (Twice Amended): In combination,

a plurality of pads,

a plurality of vehicles,

each of the pads providing first binary indications representing an address of any individual one of the vehicles and second binary indications representing individual operations to be provided by such vehicle,

a central station responsive to the first and second binary indications from the different pads for producing for each of the pads first signals providing an individual address for the individual one of the vehicles addressed by such pad and second signals providing commands for moving such vehicle in a particular direction and for operating such vehicle,

means responsive in each of the vehicles to the first signals addressing such vehicle from the central station and to the second signals from the central station for such vehicle for moving such vehicle and operating such vehicle in accordance with the commands provided by the central station to such vehicle,

means operative in each of the vehicles for continuing to provide a movement of such vehicle for a particular period of time in accordance with the last commands addressed to

such vehicle by the central station when the vehicle fails to receive any commands addressed to such vehicle during such particular period of time, and

means in the central station for providing for the transmittal to the vehicles from the central station only of changes in the address or commands in each of the pads from the address or commands previously provided in the pad.

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Claim ~~47~~⁴⁵ (Twice Amended): In a combination as set forth in claim ~~46~~⁴⁴,

means in each of the vehicles for converting the vehicle to an inactive but powered state when the vehicle fails to receive any commands from the central station for the particular period of time, and

means in each of the vehicles for providing for a change in such vehicle from the inactive but powered state to a depowered state at the end of a second particular period of time when such vehicle fails to receive any commands addressed to such vehicle from the central station for any of the pads during such second particular period of time.

Claim ~~49~~⁴⁷ (Twice Amended): In combination,

a plurality of pads,

a plurality of vehicles,

each of the pads providing first binary indications representing a selection of any individual one of the vehicles and second binary indications representing individual operations to be provided by such vehicle,

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a central station responsive to the first and second binary indications from the different pads for producing for each of the pads first signals providing an individual address for any individual one of the vehicles selected by such pad, the pads being connected to the central station,

each of the vehicles including a pair of left wheels spaced from each other in a longitudinal direction and a pair of right wheels spaced from each other in the longitudinal direction and including a first motor for moving the left wheels and a second motor for moving the right wheels,

the commands addressed to the vehicle from the central station including second signals for operating the first motor and third signals for operating the second motor,

first means in each of the vehicles for receiving the first, second and third signals addressed to such vehicle from the central station, [and].

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second means responsive in each of the vehicles to the second and third signals received by the vehicle from the central station for accelerating the first and second motors in progressive increments to the speeds commanded by the central station to such motors for movement of such vehicle in the longitudinal direction, and

third means responsive in each of the vehicles to the second and third signals received by such vehicle from the central station for operating the first and second motors at the same speed without any increment in speed when one of the motors in such vehicle has been previously operated at a different speed than the other motor in such vehicle, the same speed constituting the higher of the speeds provided by the first and second motors in such vehicle .

Claim ⁵⁴~~52~~ (Twice Amended): Line 2, before "packets" insert - successive -.

Claim ⁵⁵~~53~~ (Twice Amended): Line 19, before "packets" insert - successive -;
line 23, before "packets" insert - successive -.

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Claim ¹¹¹~~101~~ (Twice Amended): In combination for use in a system including a plurality of vehicles each responsive to an individual address and to a plurality of commands for providing individual operations of vehicles in accordance with such commands,

a plurality of pads each operative to provide an address for selecting any individual one of the vehicles and to provide commands to such individual one of the vehicles for operating such individual one of the vehicles in accordance with such commands,

a central station the pads being connected to the central station,

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first means in the central station for interrogating the pads to determine the address and the commands provided by such pads,

second means responsive in the central station to the interrogation provided by the first means in the central station concerning the address and the commands from such pads for receiving the address and the commands from such pads and for transmitting the address and the commands from such pads to the vehicles in the plurality, and

third means responsive in the central station to the connection of an additional pad, other than the pads in the plurality, to the central station and to the reception by the central station of the address and commands from such additional pad for initially transmitting such address and commands from such additional pad [to the vehicles] on a priority basis relative to the transmission of the address and commands from the [other ones of the] pads in the plurality [to the vehicles].

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Claim 146 (Twice Amended): In combination for use with a plurality of pads each operative to provide an address and commands and a central station for transmitting at a particular frequency a carrier signal modulated with the addresses and commands from the pads, a vehicle,

means in the vehicle for receiving from the central station the carrier signals modulated with the address individual to such vehicle,

means for powering the vehicle in accordance with the reception by such vehicle of the modulated carrier signals individual to such vehicle,

means in the vehicle for demodulating the modulated carrier signals to recover the commands individual to such vehicle,

the vehicle including wheels for moving the vehicle and including motors for rotating the wheels,

means in the receiving means for providing pulse width modulations for energizing the motors in the vehicle to move the vehicle, successive ones of the pulse width modulations providing progressive increments of time in the pulse widths for energizing the motors to accelerate the vehicle, and

means in the receiving means for [progressively] energizing the motors with the successive ones of the pulse width modulations for the progressive increments of time in the pulse widths to accelerate the motors.

Claim 147 (Twice Amended): In a combination as set forth in claim 146,

the widths of the pulse widths [vehicle] being progressively [energized with the pulse width modulations] incremented for the progressive increments of time from a zero time in the pulse widths [modulations] to accelerate the motors in the vehicle.